Amendments to the Claims

1. (Currently amended) A method comprising:

receiving a keepalive message from a client station, and sending to the client station an acknowledgement of the received keepalive message;

determining a measure of network load;

based on the measure of network load, selecting a keepalive period;

reporting the selected keepalive period to the client station in a response to the acknowledgement of the received keepalive message; and

the client station responsively sending a next keepalive message to a presence server at a time determined based on the selected keepalive period reported in the response acknowledgement.

- 2. (Original) The method of claim 1, wherein the client station is a wireless mobile station.
- 3. (Previously presented) The method of claim 1, wherein the determining a measure of network load comprises:

the presence server querying a controller that has access to network load information.

- 4. (Currently amended) A presence server in a communication network, comprising:
 - a first module arranged to receive keepalive messages from at least one client station;

a second module arranged to select a keepalive period based on a measure of network

load; and

a third module arranged to send acknowledgements of the received keepalive messages to

the at least one client station, and to report the selected keepalive period to the at least one client

station in responses to the acknowledgements the received keepalive messages.

5. (Original) The presence server of claim 4, wherein the presence server at

fixed time intervals polls a controller to obtain network load information.

6. (Original) The presence server of claim 4, wherein the communication

network is a wireless communication network.

7. (Original) The presence server of claim 4, wherein the presence server is

coupled to a controller, the controller keeping track of network load information.

8. (Original) The presence server of claim 4, wherein the presence server is

embedded with a controller that keeps track of network load information.

9. (Currently amended) A system comprising:

at least one client station;

a presence server;

the presence server receiving a keepalive message from the at least one client station and

sending to the at least one client station an acknowledgement of the received keepalive message;

the presence server determining a keepalive period based on network load and sending an

indication of the determined keepalive period to the at least one client station in a response to the

acknowledgement the keepalive message; and

the at least one client station sending subsequent keepalive signals according to the

keepalive period indicated in the response.

10. (Previously presented) The system of claim 9, further comprising a

controller that has access to network load information.

11. (Original) The system of claim 10, wherein the controller periodically pushes

network load information to the presence server.

12. (Previously presented) The system of claim 9, wherein the at least one

client station and the presence server communicate via a wireless communication network.

13. (Previously presented) The system of claim 9, wherein the at least one

client station and the presence server communicate via a packet-switched network.

14. (Currently amended) A method comprising:

sending a first keepalive message from a client station to a presence server, and sending

from the presence server to the client station an acknowledgement of the first keepalive message;

selecting a keepalive period based on a measure of network load;

reporting the selected keepalive period to the client station in a response to the first

keepalive message the acknowledgement of the first keepalive message;

using the selected keepalive period to determine when the client station should send a

next keepalive message to the presence server; and

sending the next keepalive message from the client station to the presence server.

15. (Original) The method of claim 14, wherein selecting the keepalive period

based on the measure of network load comprises:

the presence server selecting the keepalive period based on the measure of network load.

16. (Previously presented) The method of claim 14, wherein the first keepalive

message comprises a Session Initial Protocol message.

17. (Original) The method of claim 14, wherein the method is used for

dynamically determining keepalive periods in a wireless communication system, the wireless

communication system serving one or more wireless mobile subscribers.

18. (Cancelled)

19. (Currently amended) A client station in a communication network, the client

station comprising:

a receiver;

a transmitter;

a timer;

at least one processor;

data storage holding program instructions;

the program instructions being executable by the at least one processor to send a

keepalive message through the transmitter, and to receive through the receiver a response to an

acknowledgement of the keepalive message, the response acknowledgement containing

information defining a keepalive period, the keepalive period being selected based on network

load; and

the program instructions being further executable by the at least one processor, in

response to receiving, in the response acknowledgement, the information defining the keepalive

period, to:

(i) set the timer according to the keepalive period, and

(ii) send a new keepalive message through the transmitter when the timer expires.

20. (Currently amended) A system for dynamically determining keepalive periods in

a wireless communication network, comprising:

at least one base station;

a presence server;

a packet-switched network;

the presence server being capable of communicating with at least one mobile subscriber

through the packet-switched network;

the presence server receiving a keepalive message from the at least one mobile subscriber

through the packet-switched network and sending to the at least one client station an

acknowledgement of the received keepalive message; and

the presence server selecting a keepalive period for the at least one mobile subscriber

based on measures of network load, and the presence server reporting the selected keepalive

period to the at least one mobile subscriber, in a response to the received keepalive message in

the acknowledgement, through the packet-switched network.

21. (Previously presented) The system of claim 20, wherein the presence

server at fixed time intervals polls a controller to obtain the measures of network load.

22. (Previously presented) The system of claim 20, wherein the presence

server determines the measures of network load by querying a controller that has access to the

measures of network load.

23. (Original) The system of claim 20, wherein the presence server keeps track of

network bandwidth usage.

24. (Previously presented) The system of claim 20, wherein the at least one

mobile subscriber, upon receiving the selected keepalive period, sends a keepalive message at a

time determined by the selected keepalive period.

25. (Currently amended) A presence server in a communication network comprising:

a database, the database maintaining a list of client stations that are connected to the

communication network; and

a timer;

wherein the presence server is programmed to:

receive keepalive messages from at least one client station and send to the at least

one client station acknowledgements of the received keepalive messages,

select a keepalive period for the at least one client station based on a measure of

network load,

report the selected keepalive period to the at least one client station in responses

to the keepalive messages the acknowledgements, and

drop the at least one client station from the database if the presence server does

not receive a new keepalive message within the selected keepalive period from the at

least one client station.

26. (Currently amended) A method comprising:

sending a first keepalive message from a client station to a presence server, and sending

from the presence server to the client station an acknowledgement of the first keepalive message;

selecting a keepalive period based on a measure of network load;

reporting the selected keepalive period to the client station in a response to the first

keepalive message acknowledgement;

using the selected keepalive period to determine when the client station should send a

next keepalive message to the presence server; and

updating a database of the presence server based on whether the client station has sent a

next keepalive message to the presence server within the selected keepalive period.